

WHAT IS CLAIMED IS:

1. A method of treating human skin, comprising:
determining a site on skin of a human patient in need of treatment; and
topically applying to the site a composition comprising platelet-rich plasma and dermatologically acceptable carrier.
2. The method of claim 1, further comprising:
rubbing the composition into the skin.
3. The method of claim 1, further comprising:
allowing the composition to be absorbed into the skin wherein the composition further comprises a skin permeation enhancer.
4. The method of claim 1, wherein the site comprises facial skin.
5. The method of claim 4, wherein the platelet-rich plasma comprises platelets obtained from the patient being treated.
6. The method of claim 1, further comprising:
repeating the topical application of the composition to the site about every 6 to 48 hours.
7. The method of claim 6, wherein the topical application is repeated about every 12 hours.
8. A method, comprising:
extracting blood from a patient;
concentrating platelets from the blood;
combining the platelets with a pharmaceutically acceptable carrier thereby forming a composition.
9. The method of claim 8, wherein the patient to which the composition is applied is the same patient from which the blood is extracted, and the composition further comprises a skin permeation enhancer and the carrier is for topical application to skin.

10. The method claim 8, wherein the carrier is an injectable carrier and is combined with a component chosen from collagen, cultured cells, and mixtures thereof.
11. A method, comprising:
 - extracting blood from a patient;
 - concentrating platelets from the blood;
 - treating the platelets in a manner which breaks open the platelets and obtaining a platelet releasate; and
 - combining the platelet releasate with a dermatologically acceptable carrier to form a composition.
12. The method of claim 11, wherein the treating comprises exposing the platelets to energy waves and wherein the platelet releasate is further combined with a skin permeation enhancer.
13. The method of claim 12, wherein the energy waves are ultra sound.
14. A method of culturing cells, comprising:
 - isolating cells from a patient;
 - placing the cells on a medium comprising platelet-rich plasma; and
 - allowing the cells to proliferate.
15. The method of claim 14, wherein the isolated cells are fibroblast cells.
16. The method of claim 14, wherein the cells are isolated from the same patient as the platelets of the platelet-rich plasma are obtained.
17. The method of claim 14, wherein the isolate cells are stem cells.
18. A method of culturing cells, comprising:
 - extracting blood from a patient;
 - concentrating platelets from the blood;
 - treating the platelets in a manner which breaks open the platelets and obtaining a platelet releasate;

placing cells on a culture median comprising the platelet releasate; and allowing the cells to proliferate.

19. The method of claim 18, further comprising formulating the cultured cells into an injectable formulation wherein the cells placed on the culture medium are obtained from the same patient the blood is extracted from, and the platelets are treated with ultra sound.

20. The method of claim 19, further comprising:
injecting the formulation into the patient.

21. A dermatological composition, comprising:
a therapeutically effective amount of platelet releasate; and
a dermatologically acceptable carrier for topical application to the skin.

22. The composition of claim 21, further comprising a skin permeation enhancer.

23. An injectable formulation, comprising
an injectable carrier;
cells cultured in platelet releasate wherein the cells and the platelet releasate are obtained from the same patient.

24. The formulation of claim 23, wherein the cells comprise fibroblast cells.

25. A transdermal patch comprising:
at least one support film;
an intermediate matrix comprising a pharmaceutical composition; and
a protective release strip,
wherein the pharmaceutical composition comprises an isolated component of blood in a pharmaceutically acceptable and effective amount.

26. A transdermal patch according to claim 25, further comprising:
a component chosen from stabilizers, solubilizers, surfactants, and permeation activators to facilitate the passage of the blood concentrate through skin.

27. A transdermal patch according to claim 26, wherein said stabilizers are antioxidant substances, the solubilizer is a glycol and the permeation activators are chosen from a fatty acid and an alcohol.

28. A transdermal patch according to claim 26, wherein the isolated component of blood is blood platelet releasate.

29. A transdermal patch according to claim 26, wherein pharmaceutical composition further comprises fibroblast cells.

30. A method of treatment, comprising:
extracting blood from a patient;
isolating platelets from the blood;
treating the platelets to obtain a platelet releasate;
formulating the releasate to adjust its pH;
adding the formulated releasate to a transdermal patch; and
applying the patch to the skin of a patient.

31. The method of claim 30, further comprising:
applying a current through the skin of the patient to move the formulation into the skin by iontophoresis.

32. A method of doing business, comprising the steps of:
extracting blood from a patient;
concentrating a component of the blood to form a concentrate;
formulating the concentrate with a pharmaceutically acceptable carrier to form a composition.

33. The method of claim 32, further comprising:
treating the patient with the composition.

34. The method of claim 32, further comprising:
packaging the composition with a skin permeation enhancer.

35. The method of claim 34, further comprising:
providing the composition to a caregiver of the patient for topical application to or injection into the patient from which the blood was extracted.
36. The method of claim 32, wherein the concentrate is platelet rich plasma.
37. The method of claim 36, further comprising:
treating the platelets in a manner which breaks open the platelets and obtaining a platelet releasate.
38. The method of claim 37, wherein the treating comprises exposing the platelets to energy waves.
39. A method of doing business, comprising:
extracting blood from a patient;
concentrating platelets from the blood;
combining the platelets with a dermatologically acceptable carrier thereby forming a composition.
40. The method of claim 39, further comprising:
placing the composition in a labeled container with a skin permeation enhancer; and
selling the composition to the patient for application to skin.
41. The method of claim 40, wherein the patient to which the composition is applied is the same patient from which the blood is extracted.
42. A method of doing business, comprising the steps of:
extracting an egg from an adult human female;
extracting blood from the adult human female;
concentrating platelets from the extracted blood;
obtaining releasate from the platelets;
fertilizing the egg;
placing the fertilized egg on a cell culture medium comprising the platelet releasate.

43. A formulation, comprising:
cells cultured in a medium comprising platelet releasate obtained from the same patient as the cells; and
a pharmaceutically acceptable carrier.
44. The formulation of claim 43, wherein the cells are human fibroblast cells and the carrier is an injectable carrier.
45. The formulation of claim 43, wherein the cells are chosen from a stem cell and an adult human female egg cell.